

FIG. 2

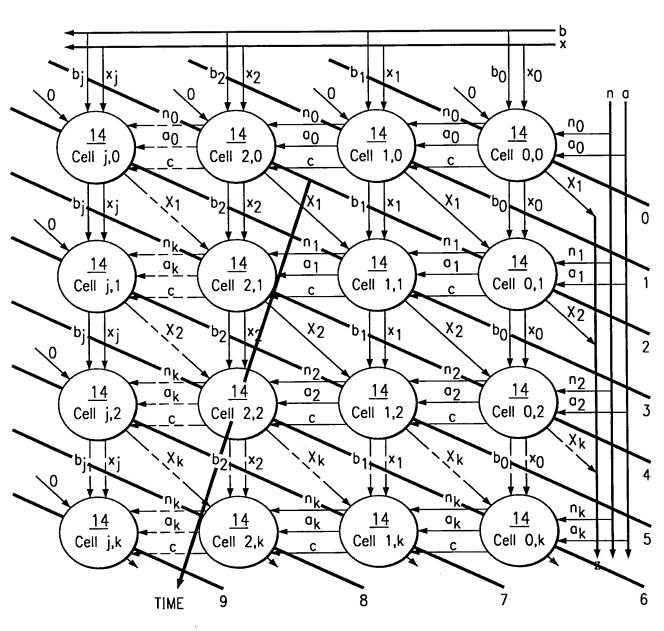
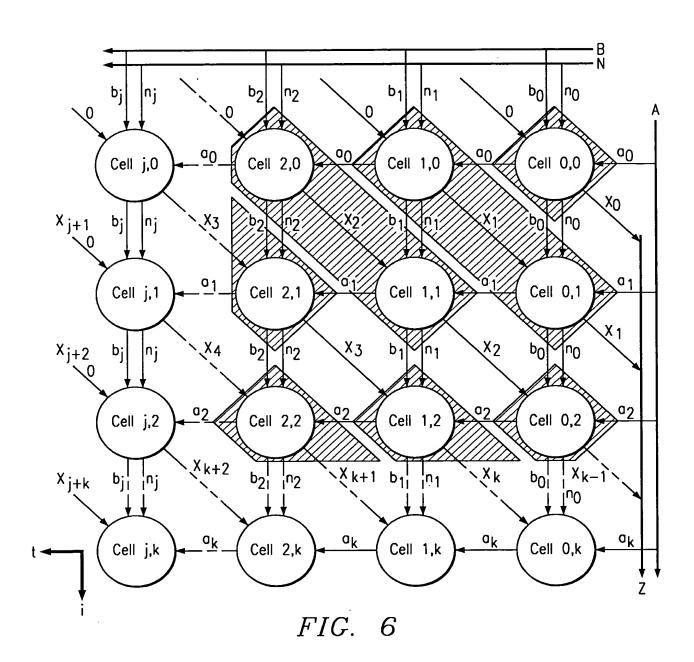


FIG. 3

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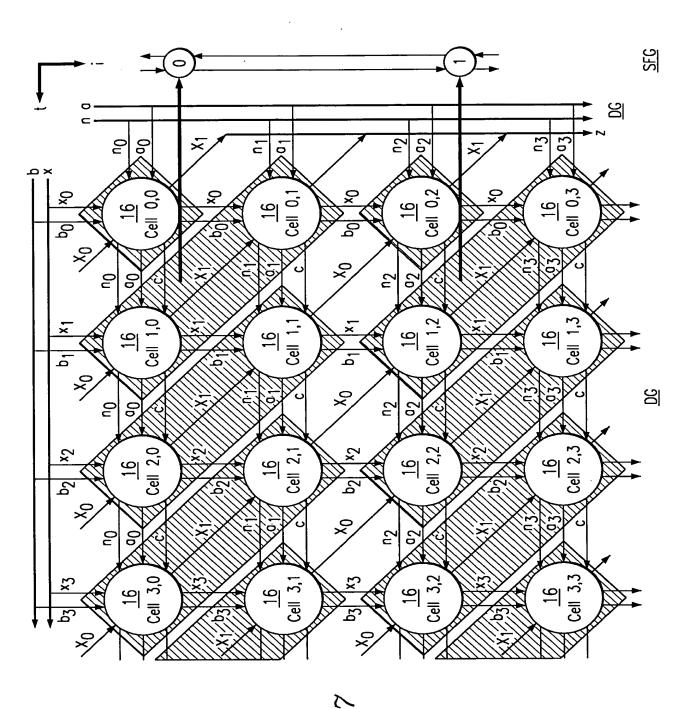
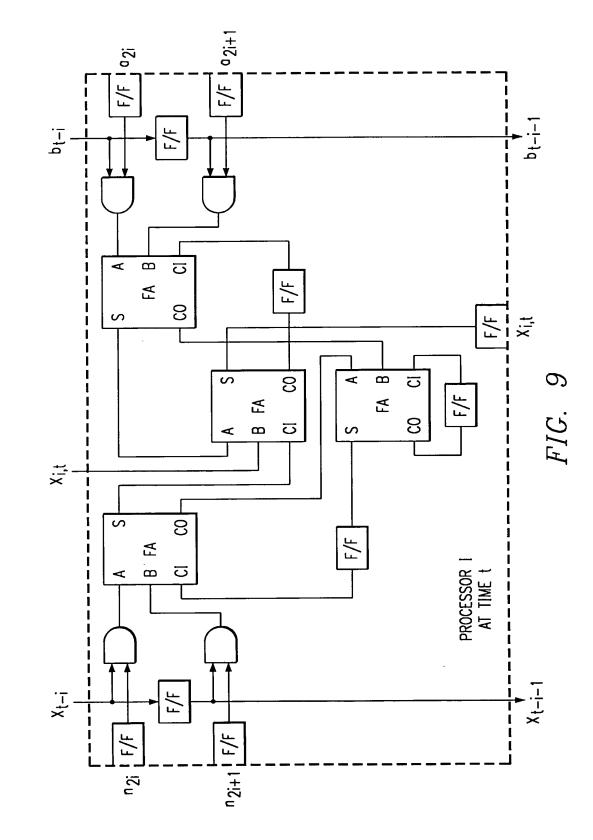


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```
Process TypicalBinaryMultiply (A,B)
Z=0;
For i in 0 to n-1 loop
  c := 0:
   For j in 0 to n-1 loop
       Z_{i+j} := (Z_{i+j} + A_i * B_j + c) \mod 2;
       c := (Z_{i+j} + A_i * B_i + c) \text{ div } 2;
   end loop;
  for j in n to 2n-1 loop
       Z_i := (Z_i + c) \mod 2;
                                                    Process Reduce(Z;, N)
       c' := (Z'_1 + c) \text{ div } 2;
                                                    c := 0;
                                                   For i in 0 to n−1 loop
   end loop;
                                              Z;;
   transmit Z;;
                                                     ➤ wait for Z;
end loop;
                                                       X_i := Z_i;
                                                       X_i := (X_i + x * N_i + c) \mod 2;
                               BITS OF Z FEED
                                                       c := (X_i + x * N_i + c) \text{ div } 2;
                                 SEQUENTIALLY
                                                    end loop;
                                    ACROSS
                                                    X := X/2;
                                                    For i in 1 to k-1 loop
                                                       x = X \mod 2; c := 0;
                                                       For j in 0 to n-1 loop
                      FIG.
                                 10
                                                          X_i = (X_i + x * N_i + c) \mod 2;
                                                          c = (X_j + x * N_j + c) \text{ div } 2;
                                                       end loop;
                                                       X = X/2;
                                                    end loop;
```

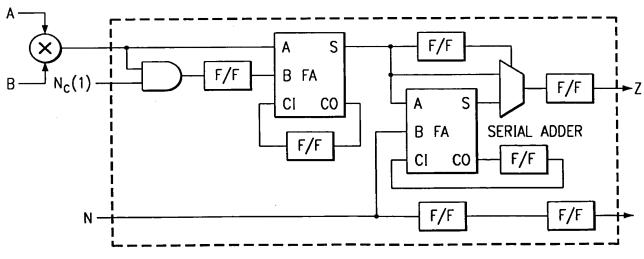
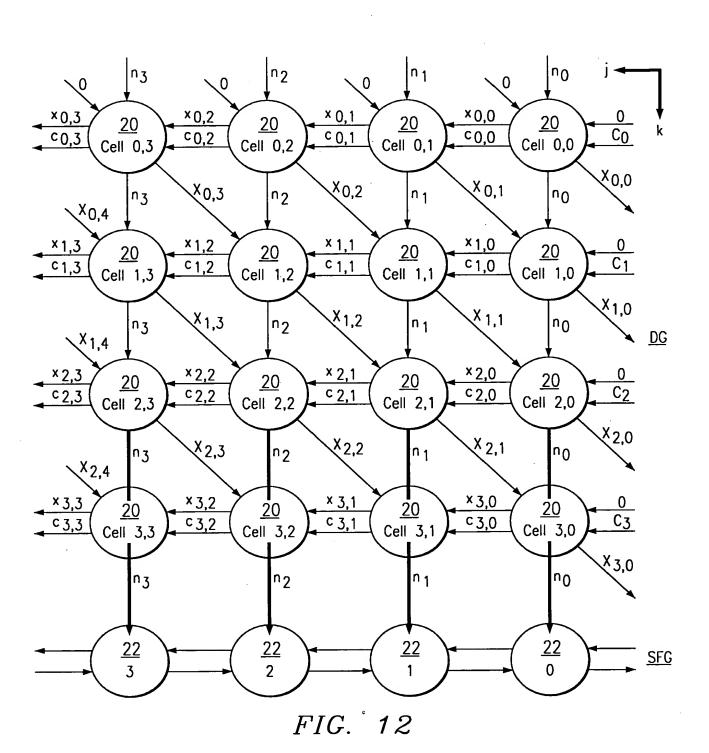
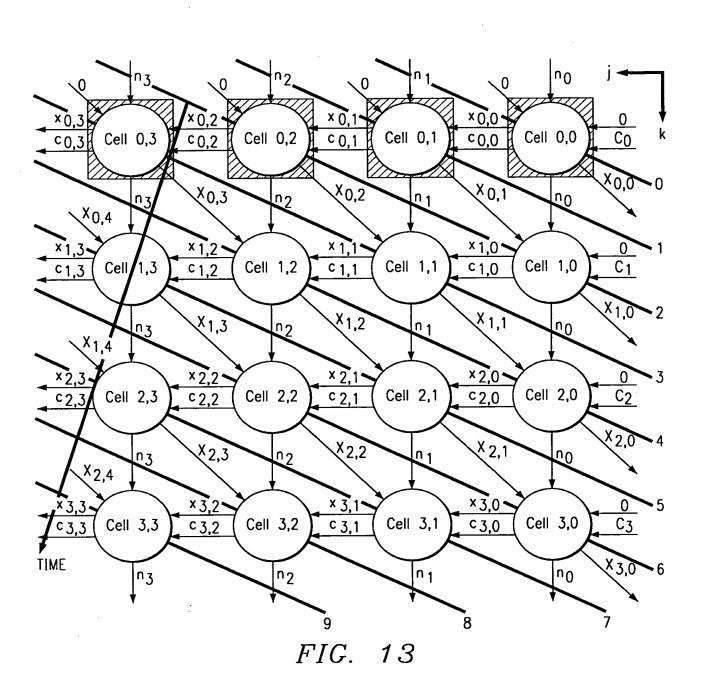
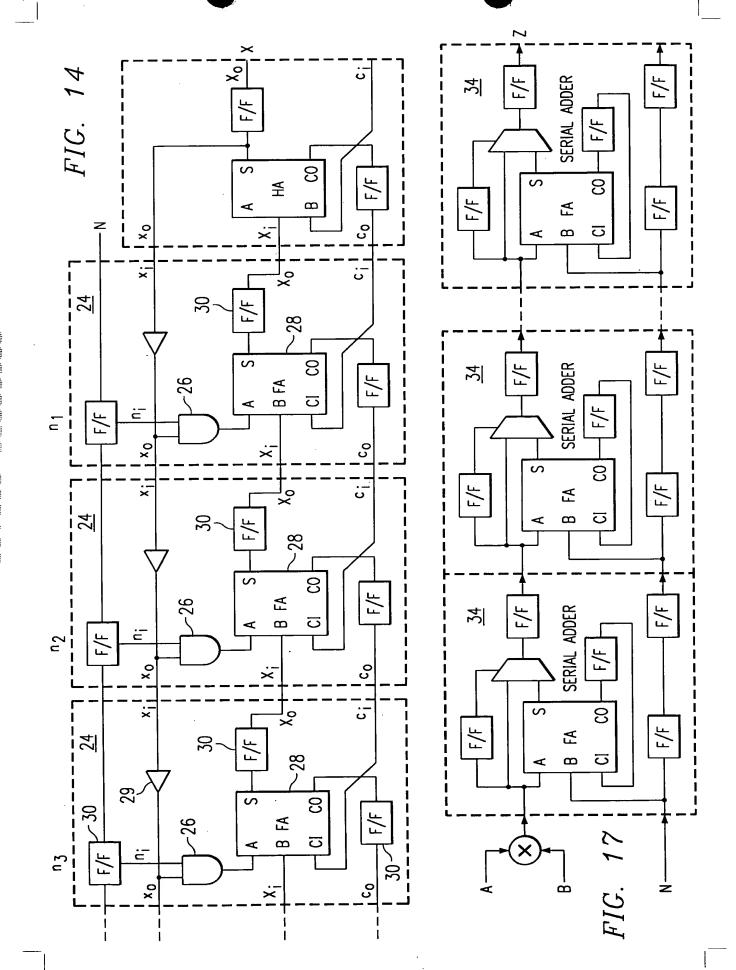


FIG. 18

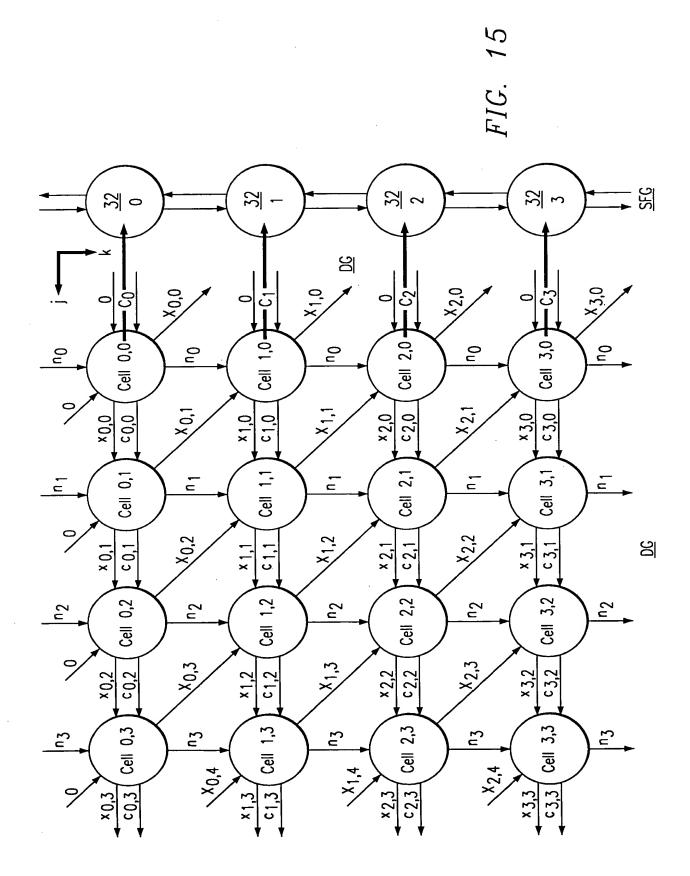
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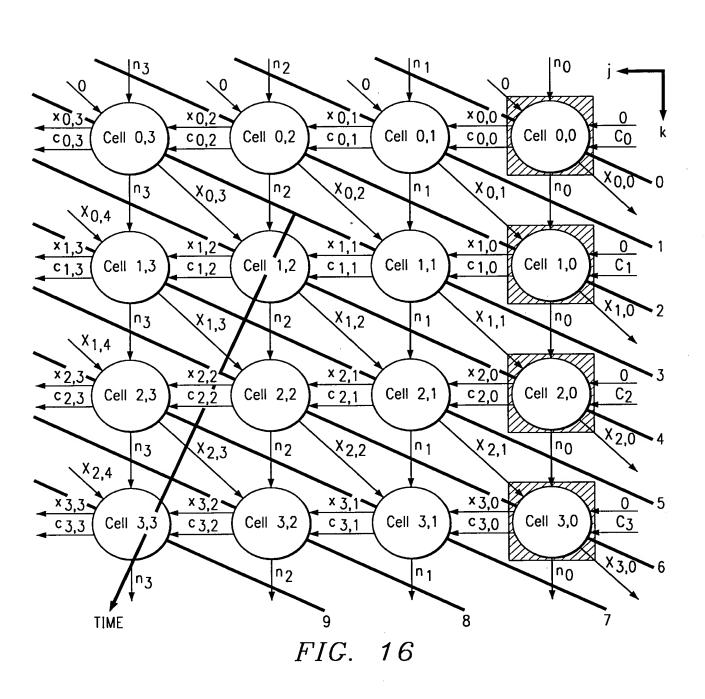


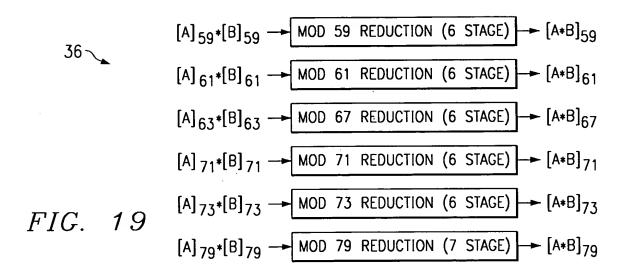


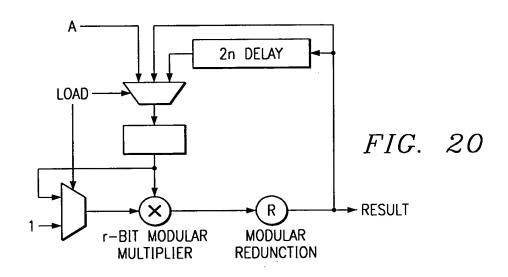


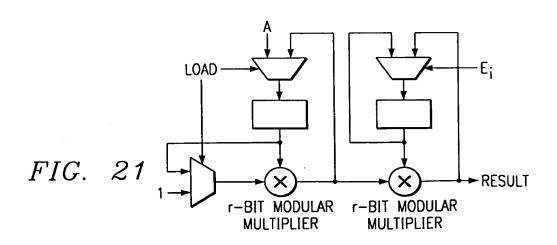
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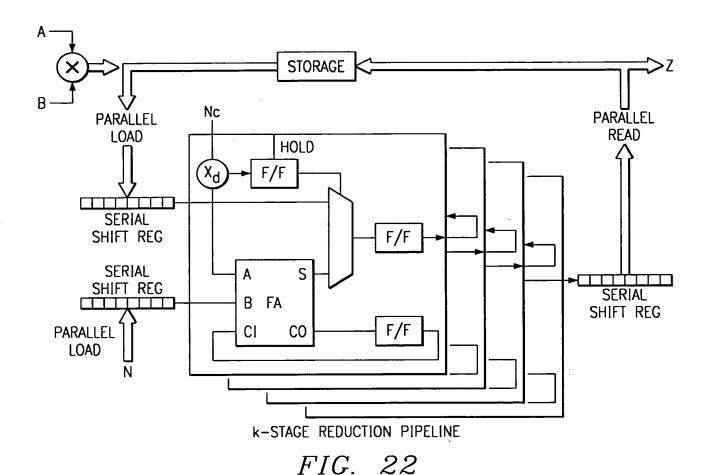












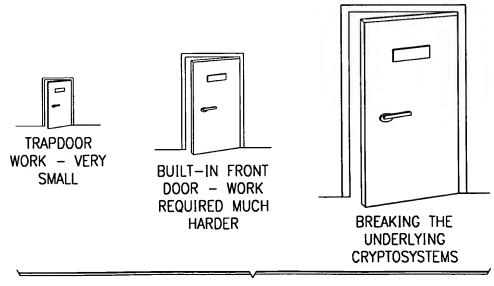
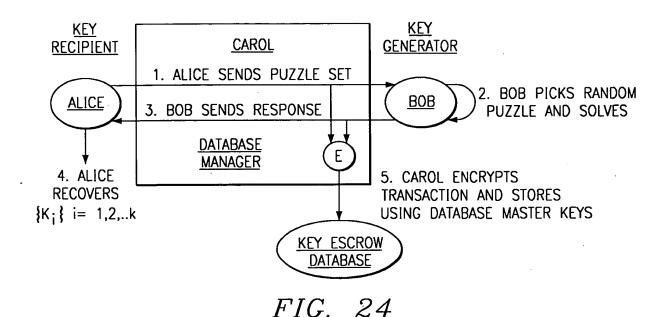
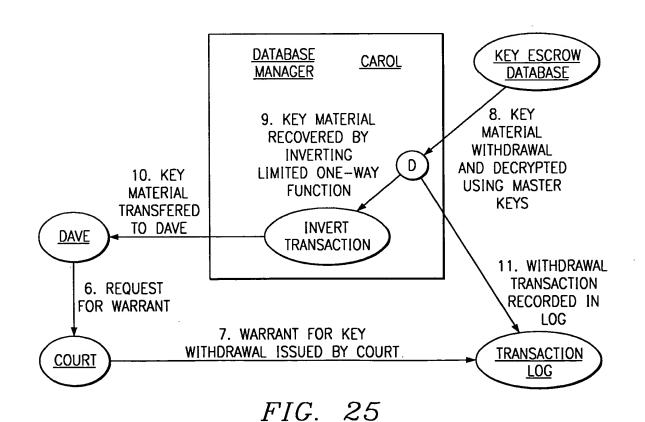


FIG. 23





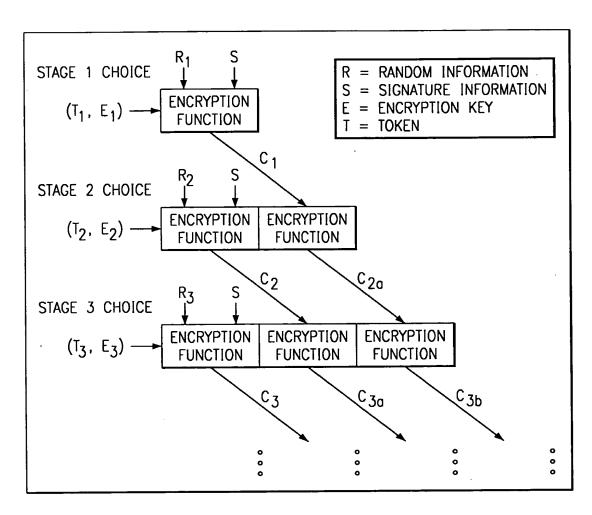


FIG. 26

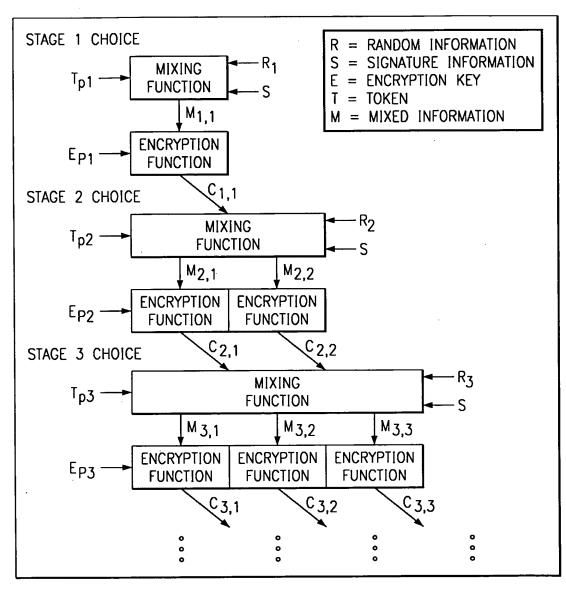


FIG. 27